Product Support Guide
D009 / D011 / D012 / D013

Introduction

Model Type	**B/W MFP**
Launch Date	**January 2008**
S/N Configuration	**M54 / M55 / M56 / M57**
Product Code	**D009 / D011 / D012 / D013**

Brand/Model Name

Product Code	Lanier	Ricoh	Savin
D009	LD040B	Aficio MP 4000B	9040b
D011	LD040	Aficio MP 4000	9040
D012	LD050B	Aficio MP 5000B	9050b
D013	LD050	Aficio MP 5000	9050

Product Concept

The D011/D013 with its advanced features will allow us to provide customers with the best features that money can buy, such as the full color, wide VGA touch panel and color scanner capability. We have also created a lineup of basic models (D009/D012) that can be upgraded to a mono scanner with printer/scanner capabilities for the cost conscious customer. By launching these two models, we can provide a solution that will satisfy a wider base of customers, which will help to increase our sales in this segment.

Subject to change without notice

Product Support Guide
D009 D011 D012 D013

Order Number
Main Frame

Item	Model Name	EDP Code	Lanier ID	Notes
D009	Lanier LD040B Ricoh Aficio MP 4000B Savin9040b	414374	D040B	B/W Scanning Only No HDD 256Mb RAM
D011	Lanier LD040SP Ricoh Aficio MP 4000SP Savin 9040sp	414376	D040SP	Scanner / Printer HDD included 768Mb RAM
D011	Lanier LD040SPF Ricoh Aficio MP 4000SPF Savin 9040spf	414377	D040SPF	Scanner / Printer / Fax HDD Included 768Mb RAM
D012	Lanier LD050B Ricoh Aficio MP 5000B Savin 9050b	414375	D050B	B/W Scanning Only No HDD 256Mb RAM
D013	Lanier LD050SP Ricoh Aficio 5000SP Savin 9050sp	414378	D050SP	Scanner / Printer HDD included 768Mb RAM
D013	Lanier LD050SPF Ricoh Aficio 5000SPF Savin 9050spf	414379	D050SPF	Scanner / Printer / Fax HDD Included 768Mb RAM

Options

Item	Description	EDP Code	Lanier ID	Product Code	Common / Unique
Fax Unit	Fax Option Type 5000	414382	0414382	D346	U
Additional G3 Interface	G3 Interface Type 5000	413891	0413891	D346	U
PostScript3	PostScript3 Unit Type 5000	413954	0413954	D381	U
RT3000 (*1)	1200 Sheet LCT	414137	0414137	D353	U
BN3040	1 Bin Tray	414177	414177	D389	U
BU3030	Bridge Unit	414175	414175	D386	U
PB3040	2 Tray Paper Bank	414132	414132	D351	U
SR3020	Booklet Finisher	413323	4791742	B804	C (B222)
SR 790	1,000 Sheet Finisher	412730	4791333	B408	C (B291)

Subject to change without notice

Product Support Guide
D009 D011 D012 D013

Item	Description	EDP Code	Lanier ID	Product Code	Common / Unique
SR 3030	3,000 Sheet Finisher	413325	4791743	B805	C (B222)
Key Counter Bracket	Key Counter Bracket Type H	412552	4810105	A674	C (B291)
HDD Overwrite Option	Data Overwrite Security Unit Type I	413955	0413955	D362	U
Wireless LAN	IEEE 802.11a/g Interface Unit Type J	414008	2167197	D377-01	C (D017)
File Format Converter	File Format Converter Type E	414007	2167196	D377-04	C (D017)
1284 Kit	IEEE 1284 Interface Unit Type A	411699	4810786	B679	C (D017)
Punch Kit 2/3 hole	Punch Kit Type 3260	412209	2167116	B702	C (B222)
Cabinet	FAC 33 Cabinet	413762	4817580	-	C (B222)
Bluetooth Interface	Bluetooth Interface Type 3245	412866	2167092	B826	C (B291)
Fax SAF Memory	Memory Unit Type B 32 MB	001342MIU	4810174	G578	C (B291)
Handset	Handset Type 1018	410781	4810393	B433	C (B291)
Scanner Accessibility Option	Scanner Accessibility Option Type 4045	413054	4817100	B838	C (B222)
Copy Data Security Unit	Copy Data Security Unit Type F	413985	2167198	B829	C (D017)
Printer/Scanner Option	Printer Scanner Unit Type 5000	414380	414380	D381	U
ARDF (*2)	DF3010 (*2)	413046	0413046	B802	U
Platen Cover	Platen Cover Type 3800C	412551	4810334	G329	C (B222)
2000 Sheet LCT	PB3050	414134	0414134	D352	U
Printer Enhance Option	Printer Enhance Option Type 5000	413948	0413948	D381	U
RPCS Printer Unit	RPCS Printer Unit Type 5000	414381	0414381	D381	U

Subject to change without notice

Item	Description	EDP Code	Lanier ID	Product Code	Common / Unique
Hard Disk Option	Hard Disk Option Type 5000	413889	0413889	D362	U
JAVA VM Card	VM Card Type F	414004	216-7201	D377	C (D017)
Scanner Enhance	Scanner Enhance Option Type 5000	413951	0413951	D381	U
Gigabit Ethernet	Gigabit Ethernet Board Type A	402547	4817029	G874	C (D017)
HDD Encryption Unit	Hard Drive Encryption Unit Type A	414021	2167202	D377-16	C (D017)
Optional Counter Interface	Optional Counter Interface Type A	413012	2167186	B870	C (B222)

(*1) RT3000 LCT cannot be used with the FAC 33 Cabinet
(*2) ARDF Standard for North America Market

Supplies/Yields

Item	Name	Order Code	Target Yield
Lanier			
Toner	Lanier Toner	480-0397	30K/Bottle*
Developer	Developer	B2969640**	320k*
Staple Set Cartridge	SR 790, SR3020, SR3030 - Normal Staple SR3020 Saddle Stitch Staple	480-0063 480-0091	5K x 1 /carton 2K x 1 carton
Staple Refill Cartridge	SR 790, SR3020, SR3030 - Normal Staple SR3020 Saddle Stitch Staple	480-0062 480-0092	5K x 3 /carton 2k x 4/carton
Marker 30	Lanier Marker Fax Stamp 30	491-0245	1 oz carton of 4 markers
Ricoh			
Toner	Ricoh Toner	884922	30K/Bottle*
Developer	Developer	B2969640**	320k*
Staple Set Cartridge	SR 790, SR 3020, SR 3030 - Normal Staple SR3020 Saddle Stitch Staple	410801 410240	5K x 1 /carton 2K x 1 carton
Staple Refill Cartridge	SR 790 Ricoh Refill Staple Type K	410802 411541	5K x 3 /carton 2k x 4/carton
Marker 30	Ricoh Marker Fax Stamp 30	334049	1 oz carton of 4 markers
Savin			
Toner	Savin Toner	9828	30K/Bottle*
Developer	Developer	B2969640**	320k*
Staple Set Cartridge	SR 790, SR 3020, SR 3030 - Normal Staple SR 3020 Saddle Stitch Staple	410803 411242	5K x 1 /carton 2K x 1 carton
Staple Refill Cartridge	SR 790 Savin Refill Staple Type K	410804 411243	5K x 3 /carton 2k x 4/carton
Marker 30	Savin Marker Fax Stamp 30	1600089	1 carton of 4 markers

NOTE: *A4, 6% chart is used to measure the above yield. Storage period for toner is max. 1 year.
NOTE: ** Part Number

Subject to change without notice

Option Compatibility

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	ARDF	■	X																													
2	Platen Cover	X	■																													
3	1000 Sheet Finisher			■	X	X	1				0	X																				
4	3000 Sheet Finisher			X	■	X	1				0																				
5	Booklet Finisher			X	X	■	1				0																				
6	Paper Bank			1	1	1	■																									
7	LCT 1200						2	■	2																							
8	LCT 2000						X		■																							
9	One Bin Tray									■																						
10	Bridge Unit			0	0	0					■																					
11	Punch Unit			X								■																				
12	Fax Unit												■	0	0	0																
13	G3 Unit												0	■																		
14	Handset												0		■																	
15	SAF 32MB Memory												0			■																
16	Printer/Scanner Unit																■	X	X													
17	RPCS Printer Unit																X	■														
18	Printer Upgrade																X	0	■													3
19	Scanner Upgrade																X	0	0	■												3
20	PS3																0	0	0		■											3
21	IEEE 1284																0	0	0			■		X	X	X						
22	HDD Encryption Unit																						■									3
23	Bluetooth																0	0	0			X		■	X	X						
24	Wireless LAN																0	0	0						■	X						
25	File Format Converter																0	0	0			X		X	X	■						
26	Data Overwrite Security																										■					3
27	Copy Data Security																											■				
28	VM Card																												■			3
29	Key Counter Bracket																													■		
30	Scanner Accessibility Unit																														■	
31	HDD Option																		3	3	3		3				3		3			■

X: Cannot be installed together
O: Must be installed together in RAC Market
1: Can be installed with FAC 33 Cabinet, Paper Bank, or LCT 2000.
2. LCT 1200 cannot be installed with FAC 33 Cabinet.
3. D011/D013 includes HDD. HDD is included with Printer Upgrade Option. HDD required for PostScript printing.
HDD NOT required for RPCS printing.

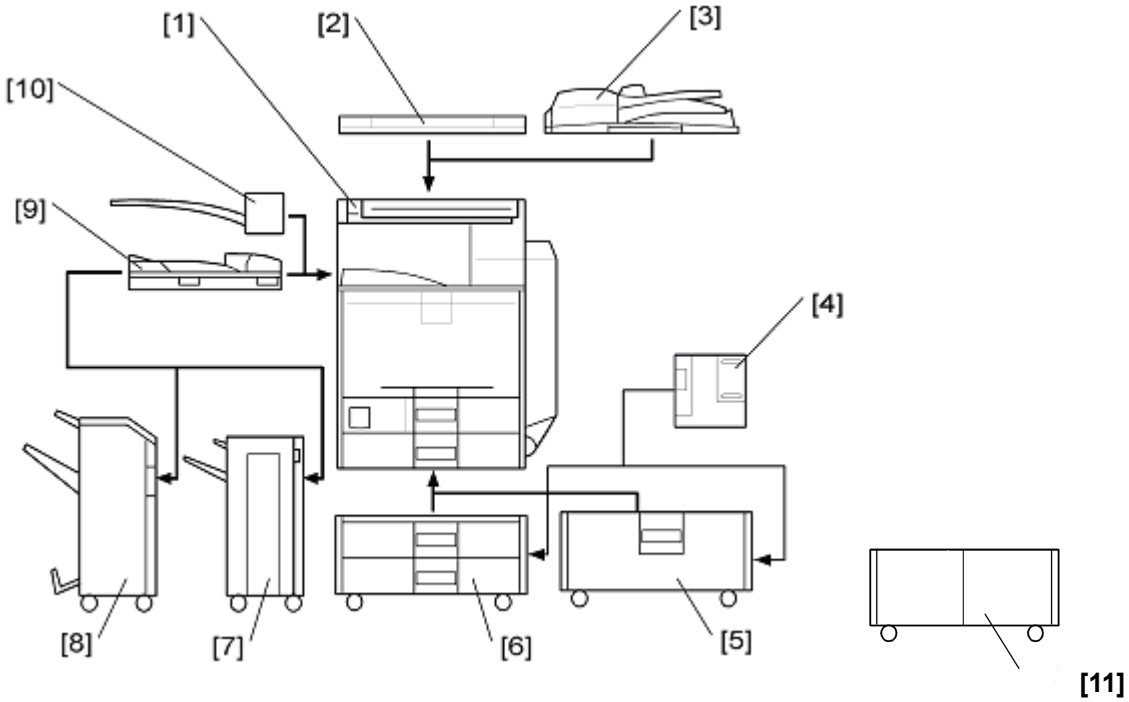
Subject to change without notice

Branding Information

Branding is required as the machines are shipped as a generic version.
Ricoh version machines: You must attach the model label (provided) to the front cover.
Savin/Lanier: You must attach the model label (provided) to the front cover and set the Plug and Play name with SP 5-907.

Configuration

Main Frame Configuration



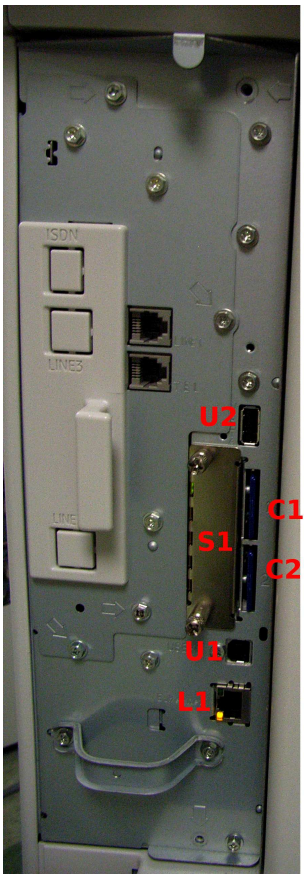
	ITEM	CALLOUT	KEY	Machine Code
Copier Accessories	D009 / D011 D012 / D013	1	-	D009 / D011 D012 / D013
	Platen Cover *1	2	C	G329
	ARDF *1	3	C	B802
	LCT 1200	4	U	D353
	LCT 2000	5	U	D352
	2 tray Paper Bank	6	U	D351
	1000 Sheet Finisher	7	C	B408
	2000 Sheet Booklet Finisher	8	C	B804
	3000 Sheet Finisher	8	C	B805
	Bridge Unit	9	U	D386
	One Bin Tray	10	U	D389
	FAC 33 Cabinet	11	C	-

Key: Symbol: U: Unique option, C: Option also used with other products *1 ARDF Standard - Platen cover optional

Subject to change without notice

MFP Options

MFP Option Board Slot / SD Card Assignments



OPTION	SLOT	Notes
Printer Scanner Unit *2	C1	See note 2
RPCS Printer Unit *2	C1	See note 2
Printer Enhance Unit *2	C1	Must be merged with RPCS Printer Option. See Note 2
Scanner Enhance Unit *2	C1	Must be merged with Printer Enhance Option. See Note 2
PostScript3 Option *2	C1	If other options are installed in Slot C1, they must be merged onto the Postscript 3 card. See note 2.
Data Overwrite Security *2	C1	See note 2
HDD Encryption	C2	SD Card is removed after installation
VM Card	C2	VM card should not be merged.
IEEE 80211a/g *1	S1	Only one option can be installed in slot S1. Note 1
Bluetooth *1	S1	Only one option can be installed in slot S1. Note 1
File Format Converter *1	S1	Only one option can be installed in slot S1. Note 1
Gigabit Ethernet *1	S1	Only one option can be installed in slot S1. Note 1
USB Printing	U1	Standard (must have printer option)
USB Host	U2	
Ethernet	L1	

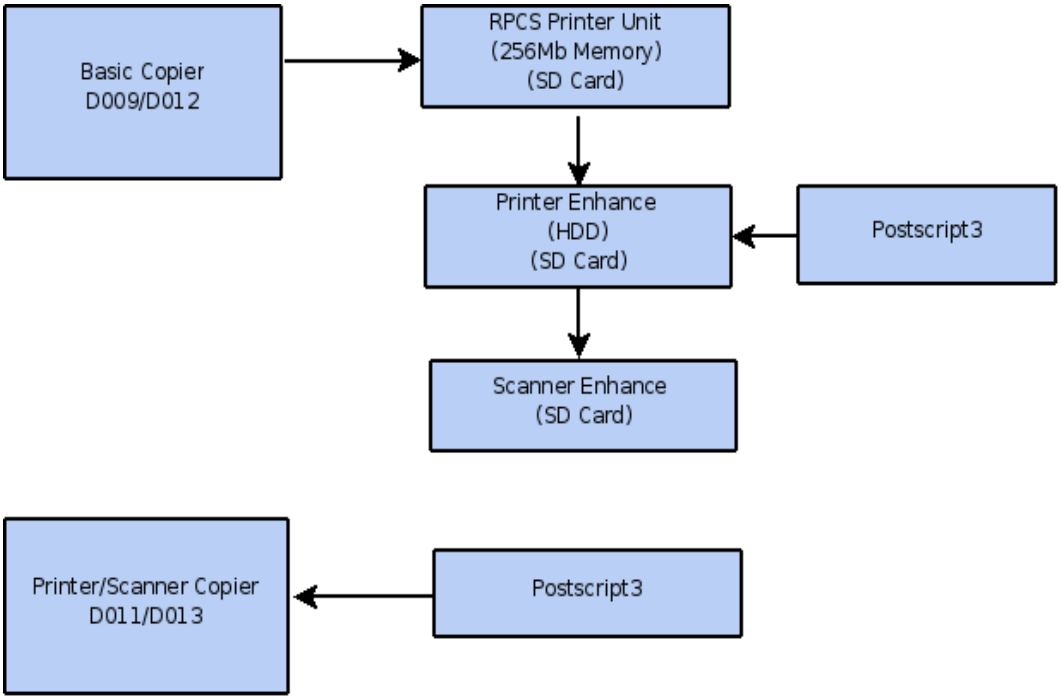
*1 There is only one board slot (S1) on the controller of the machine. Only one of these options can be installed at one time.

*2 Two SD card slots are available. If more than two options need to be installed, the applications can be moved to one SD card with SP5873-1. Due to copyright restrictions, the PostScript Unit (D383) cannot be moved to another SD card. However, other applications can be moved to the PostScript3 SD card. (For more information, see the Printer/Scanner Option manual.)
It is recommended to keep Slot C2 open for firmware updates.

Subject to change without notice

Product Support Guide
D009 D011 D012 D013

Upgrade Path



Feature Comparison To Previous Version

Feature	MP 3500/MP 4500	MP 4000/MP 5000
PPM	35/45 PPM	40/50 PPM
Scanning	Monochrome Only	Color (D011/D013 Only)
Control Panel	Monochrome Touch Screen	Color Touch Screen
Simplified Display	Not Available	Standard
Hard Disk Drive	Standard	Option for D009/D012 Standard for D011/D013
Manage Jobs	Not Available	Available
User Codes	Standard 100	Standard 500 (no upgrade)
Mail to Print	Not Available	Available
Job Preset	2 Jobs	3 Jobs
1st Copy time	4.3 Seconds (35 cpm) 3.6 Seconds (45 cpm)	4.1 Seconds (40 cpm) 3.5 Seconds (50 cpm)
Standard Paper Drawers	2 X 500	2 X 550
Bypass Tray	50 Sheets	100 Sheets
Maximum Paper Capacity	3,050 Sheets	4,400 Sheets
Maximum Paper Bond Weight	43 Pound	48 Pound
Maximum Index Weight	90 Pound	120 Pound
RAM (Max)	384 MB	768 MB for D011/D013
PM Cycle	150K	160K

Subject to change without notice

Installation

Installation Requirements

Temperature Range:	10° C to 32° C (50° F to 89.6° F)
Humidity Range:	15% to 80% RH
Ambient Illumination:	Less than 1,500 lux (do not expose to direct sunlight)
Ventilation:	Room air should turn at least 30 m3/hr/person
Ambient Dust:	Less than 0.10 mg/m3 (2.7 x 10/6 oz/yd3)

Avoid areas exposed to sudden temperature changes:

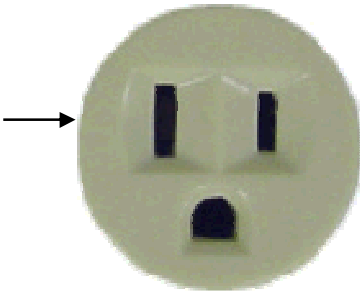
- Areas directly exposed to cool air from an air conditioner.
- Areas directly exposed to heat from a heater.

Do not place machine where it will be exposed to corrosive gas or vapor.
Do not install the machine at any location over 2,000m (6,500 ft.) above sea level.
Place the machine on a strong and level base. Inclination on any side should be no more than 5mm (0.2")
Do not place the machine where it may be subject to strong vibrations.
Machine level

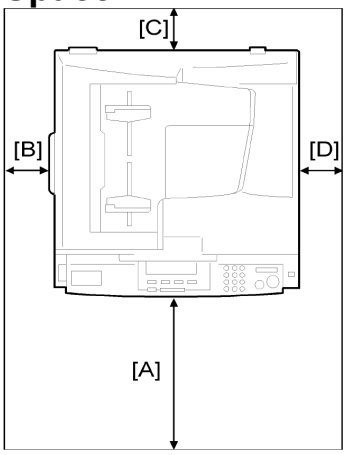
- Front to back: within 5mm (0.2") of level
- Right to left: within 5mm (0.2") of level

Power Requirements

Input voltage level: 110 - 120 V, 60Hz:12.5A
Do not place anything on power cord.
The required wall outlet is a NEMA 5-15R (receptacle)



Space



A (Front)	75 cm (29.6")
B (Left)	10 cm (4")
C (Rear)	10 cm (4")
D (Right)	55 cm (21.7")

The recommended 75cm (29.6") front space is sufficient to allow the paper tray to be pulled out. Additional the front space is required to allow operators to stand at the front of the machine.

Foot Print

Dimensions (W x D x H): 670 mm x 677 mm x 910 mm (26.3" x 26.8" x 36.1")
Measurement Conditions: With bypass feed table closed, optional PTU and with ARDF.
With optional LCT 1200 - add 348 mm (13.7') to the width.

Subject to change without notice

Power Consumption / Noise Emission

Power Consumption

	Power consumption	BTU
Full Configuration	1,500 Watts (max)	5118.2

Noise Emission

	Main Unit
Standby (Copier Only)	35.6 db
Copying (Copier Only)	68.2 db
Standby (Full System)	36.2 db
Copying (Full System)	72.3 db

NOTE: The above measurements were made in accordance with ISO 7779. The measurements were taken from the normal position of the operator.

Installation Times

Unit	Installation Time (Minutes)	Unit	Installation Time (Minutes)
Mainframe	30	LCT 1200 Sheet	10
ARDF *1	15	Fax Option	10
One Bin Tray	20	Printer Scanner Option	10
Booklet Finisher	15	IEEE 802.11a/g	5
1,000 Sheet Finisher	10	Bluetooth	5
3,000 Sheet Finisher	15	File Format Converter	10
Bridge Unit	10	Copy Data Security Unit	10
LCT 2000 Sheet	10	Paper Bank	10

*1 ARDF Standard - installation not necessary in North American Market

Storage/Transportation

	Storage	Transportation
Mainframe	-30 to 50° C (-22 to 122° F) *1,Under 80% RH *2 12 months from the production date *3	-30 to 50°C (-22 to 122° F) *1 15 to 95%RH *2
	Environment	**Time**
Toner and Developer Storage	Under 35° C (95° F)15% to 80%RH 36 to 40° C (96.8 to 104°F) 15% to 80%RH 41 to 50° C (105.8 to 122°F)15% to 80%RH	- 24 month from the production date - 1 month from the production date - 12 hours from the production date

NOTE:
*1: When stored or transported under 0℃, temperature conditions must be higher than outside air temperature.
*2: Please avoid direct sunlight when stored or transported.
*3: Unopened status

Subject to change without notice

Parts / Special Tools / Maintenance

PM Parts / Yields

Mainframe

Unique/Common
U: Unique for this model
C: Common with listed model

***1 part of the PM Kit #: PMD009160k**
***2 part of the PM Kit #: PMD009320k**

Part Number	Description	Q'ty/ Unit	PM Interval	Unique or Common
Around the Drum				
AD027012	Charge Roller *1 *2	1	160k	C (B291)
G7902329	Brush Roller - Cleaning *1 *2	1	160k	C (B291)
AD025021	Pick-off Pawl *1 *2	2	160k	C (B291)
D0092351	Cleaning Blade - First *1 *2	1	160k	U
AD041105	Cleaning Blade - Second *1 *2	1	160k	C (B291)
D0099510	OPC Drum *1 *2	1	160K	U
Development				
D0093083	Development Filter *1 *2	1	160k	U
B2969640	Developer Black	1	320k	C (B291)
Transfer Belt Unit				
A2323880	Transfer Belt *1 *2	1	160k	C (B291)
AD041135	Cleaning Blade - Transfer Unit *1 *2	1	160k	U
Fusing Unit				
AE010099	Hot Roller *1 *2	1	160k	U
AE020199	Press Roller *1 *2	1	160k	U
AE044099	Hot Roller Stripper *2	7	320k	U
D0094177	Fusing Thermistor (Center and End) *1 *2	2	160k	U
AE045099	Cleaning Web *2	1	160k	U
AE040099	Web Holder Roller *2	1	320k	U
B0654247	Brake Pad *2	1	320k	C (B291)

Subject to change without notice

Options

Paper Tray Unit / LCT 1200 / LCT 2000

Due to their durability and extended service life, the feed rollers, separation rollers, and pick-up rollers of the mainframe, optional paper trays, and LCT have been removed from the PM parts list.

Auto Reverse Document Feeder

Unique/Common
U: Unique for this model
C: Common with listed model

Part Number	Description	Q'ty	PM Interval	Unique or Common
A8061295	Paper Feed Belt	1	120k	C (B222)
B8024361	Pick-up roller	1	120k	C (B222)
A8592241	Reverse Roller	1	120k	C (B291)

Special Tools & Lubricants

Item	Part Number	Description	Q'ty	Unique or Common
1	A0069104	Scanner Positioning Pin (4pcs/set)	1	C (B291)
2	A2929500	Test Chart – S5S (10 pcs/set)	1	C (General)
3	VSSM9000	Digital Multimeter – FLUKE 187	1	C (General)
4	A2309003	Adjustment Cam – Laser Unit	1	C (B291)
5	A2309004	Positioning Pin – Laser Unit	1	C (B291)
6	B6455010	SD Card	1	C (General)
7	B6456820	USB Read/Writer	1	C (General)
8	A2579300	Grease Barrierta – S552R	1	C (General)
9	52039502	Silicon Grease G-501	1	C (General)
10	G0219350	Loop Back Connector	1	C (General)
12	---	Ricoh System Information Tool (Support Tool Version 2) - Basic version - Mail version - Rlogtool	1	C (General)

NOTE: Loop-back Connector (item 10) requires Plug-- IEEE1284 Type C and the optional IEEE 1284.

Subject to change without notice

Product Support Guide
D009 D011 D012 D013

Target Reliability

D009 D011 D012 D013	
Average Monthly Volume	**40 cpm 10k/month 50 cpm 20k/month**
Max. Monthly Volume	**50k/month**
PM Interval	**160k**
Duty	**200k/month**

Specifications / Documentation

Mainframe		**Remarks**
Original Size		Max: 11”x17”(DLT) / A3
Scan Resolution		600dpi
Copy/Print Resolution		600dpi
Auto Original Size Detection	**Exposure Glass**	A4 LEF/SEF, 11”x17”(DLT) SEF, 8 ½”x14” (LG) SEF, 8 ½”x11” (LT) LEF/SEF, 5 ½”x 8½ (HLT) LEF/SEF
	ARDF	A3 SEF, A4 LEF/SEF, 11”x17”(DLT) SEF, 8 ½”x14” (LG) SEF, 8 ½”x11” (LT) LEF/SEF, 5 ½”x8 ½” (HLT) LEF/SEF, 8 ½”x13” (Foolscap) SEF, 11”x15” (Folio) SEF, 10”x14” (Folio) SEF, 8”x10” (Folio) SEF, 7¼”x 10½” (Executive) LEF/SEF
Paper Weight	**Standard Tray**	60-169 g/m2 (16-45 lbs)
	Bypass Tray	52-220 g/m2 (14-58 lbs)
	Paper Bank	60-169 g/m2 (16-45 lbs)
	Duplex Unit	60-169 g/m2 (16-45 lbs)
Copy Speed (ARDF 1to1)	**D009/D011**	40cpm (LT/A4 LEF)
	D012/D013	50cpm (LT/A4 LEF)
Copying Speed (Simplex to Duplex)	**D009/D011**	40cpm (LT/A4 LEF)
	D012/D013	50cpm (LT/A4 LEF)
1st Copy Time (LT/A4 LEF/from 1st tray)	**D009/D011**	4.1sec.
	D012/D013	3.5sec.
Warm-up Time (from main switch)		13 seconds
Recovery Time (from Auto-off mode)		10 seconds
Multiple Copying		Up to 999 copies
Reproduction Ratio	**US Model**	7 Reduction & 5 Enlargement 400%, 200%, 155%, 129%, 121%, 100%, 93%, 85%, 78%, 73%, 65%, 50%, 25%
Zoom		From 25% to 400% in 1% step
Paper Feeding Capacity (20lb bond) (80g/m2 paper)	**Standard**	Paper Bank Unit: 550 sheets x 2trays Bypass Tray: 100 sheets (less than 10mm)
	Option	Paper Bank Unit: 550 sheets x 2trays*1 LCT: 2,000 sheets*1 LCT: 1,200 sheets
	Max. Capacity	4,400sheets (Standard + LCT 2,000sheets + LCT 1,200sheets)

Subject to change without notice

Mainframe (continued)		Remarks
Paper Output Capacity (by 80g/m2 paper)	Standard	Face Down: 500sheets (A4/LT),250sheets (A3/LG/DTL)
	Option	1 Bin Tray: 125 sheets -Or- 1,000 sheets Finisher: 1,000 + 250 sheets (80gsm) -Or- 2,000 sheets Booklet Finisher: 2,000 + 250 sheets (80gsm) -Or- 3,000 sheets Finisher: 3,000 + 250 sheets (80gsm)
	Max. Capacity	3,750sheets (with 3,000 sheets Finisher)
Paper Volume Indicator		Standard Tray: 5 Levels (0%, 10%, 30%, 70%, 100%) Bypass: 2 Levels (Exist, Not exist) Paper Bank Unit: 5 Levels (0%, 10%, 30%, 70%, 100%) LCT: Right Side Tray: 5 Levels (0%, 10%, 30%, 70%, 100%) Left Side Tray: 4 Levels (0%, 30%, 70%, 100%)
Technology	Scanning Element	Flatbed with moving CCD array image-sensor
	Printing Processing	Single Laser beam scanning & electro-photographic printing
Machine Weight		Less than 85kg (187.4lbs)
JBIG Standard		Transmission Speed: 2.0 Sec
Color Mode: (Only for color scanner model)		Auto Color Selection (ACS) (For Color Scanner), Full Color (For Color Scanner), Black & White
Copy Mode		Auto Text & Photo Separation (Printed/Glossy/Copied) Photo (Printed/Glossy/Copied), Text, Pale, Generation
Paper Selection		Default = Auto Paper Selection (APS) Auto Paper Selection (APS) 1st Tray 2nd Tray 3rd Tray (with Paper Bank) 4th Tray (with Paper Bank) 5th Tray LCT Bypass Tray
Paper Type Display	Standard Tray, Paper Bank Unit, LCT	[Paper Type] Plain Paper (No Display Paper Type), Recycle Paper, Color Paper, Letterhead, Special Paper 1-3, Cardstock, Preprinted Paper, Bond Paper, Backside, Pre-Punched Paper [Thickness]Normal Paper, Semi-Thick Paper, Thick Paper 1
	Bypass Tray	[Paper Type] Plain Paper (No Display Paper Type), Recycle Paper, Color Paper, Letterhead, Label Paper, OHP, Special Paper 1-3, Cardstock, Preprinted Paper, Bond Paper, Backside, Pre-Punched Paper [Thickness]Thin Paper, Normal Paper, Semi-Thick Paper, Thick Paper 1-2
Auto Tray Switch		Yes
Reduce / Enlarge		Auto Magnification Selection (AMS) Preset Reduce / Enlarge Zoom Size Magnification Directional Magnification (%) Directional Size Magnification (Inch/mm) Full Image Copy (93% & Centering)

Subject to change without notice

Mainframe (continued)		Remarks		
Duplex		1 sided to 2 sided 2 sided to 2 sided Book to 2 sided Front and back to 2sided		
Book / Series / Combine	**Book**	Booklet	Yes	
		Magazine	Yes	
	Series	Book to simplex	Yes	
		2 sided original to simplex (with ARDF)	Yes	
	Combine	2 into 1 simplex 4 into 1 simplex 8 into 1 simplex 1 duplex into 1 simplex 2 duplex into 1 simplex 4 duplex into 1 simplex 4 into 1 duplex 8 into 1 duplex 16 into 1 duplex 2 duplex into 1 duplex 4 duplex into 1 duplex 8 duplex into 1 duplex	Yes	
Shift / Erase / Margin Adjustment		Centering:	Yes	
		Cornering:	No	
		Margin Adjustment:	1mm step (0-30mm) Default = Front page: 5mm left Back page: 5mm right	
		Erase Center:	1mm step (2-99mm) Default = 10mm	
		Erase Border:	1mm step (2-99mm) Default = 10mm	
		Erase Center / Border:	1mm step (2-99mm) Default = Center: 10mm, Border: 10mm	
Cover Sheet / Chapter / Slip Sheets		Front Cover	Copy or Blank (Default = Copy)	
		Front & Back Cover	Copy or Blank (Default = Copy)	
		Chapter	Yes (Up to 20 chapters)	
		Slip Sheets	Yes	
Image Rotation		Yes (A4, LT, B5, 8”x10”(DLT), 7¼”x 10½” (Executive), and 195x 267)Yes		
Electronic Sort			With Finisher	w/o Finisher
		Electronic Sort	Yes	Yes
		Rotate Sort	Yes	Yes
		Shift Sort	Yes (w/shift tray to Finisher)	No
Electronic Stack (w/Finisher)		Yes		
Stapling		Yes (with Finisher)		
Punch		Yes (Finisher Option) 3 or 2 holes		
Editing Function	**Color Creation**	No		
	Image Creation	Positive / Negative:	Yes	
		Repeat:	Yes	
		Double Copy:	Yes	

Subject to change without notice

Mainframe (continued)		Remarks	
Stamp / Numbering		Yes (Option)	
		Stamp (Preset):	Yes (8 Stamps/ 2 sizes)
		User Stamp:	Yes (5 Stamps can be registered)
		Date Stamp:	Yes (7 styles)
		Page Number:	Yes (7 styles)
Image Adjustment	Color Adjustment	Color Balance Adjustment	No
		Color Balance Program	No
		Auto Color Calibration	No
	Image Adjustment	Sharp / Soft: 7 levels	
		Contract: 8 levels	
		Background Density Adjustment: 9 levels	
Mode Program		10 program	
Default Program		1 program	
User Code		8 digits / 500 user codes	
Interrupt Copy		Yes	
Auto Start		Yes	
Job Present		Yes (8 jobs)	
Sample Copy		Yes	
Simplified Display		Yes	
Login/Logout Button		Yes	
Logging Data Print out		Yes	
NRS Option		Yes	
Document Server		Yes	

Subject to change without notice

Options

ARDF - DF3010		
Original Size	**Simplex**	5 ½"x 8 ½ " LEF/SEF (HLT)– 11"x17"(DLT) / B6 LEF/SEF - A3 Vertical: 5.1"-11.7" / 128-297mm Horizontal: 5.1"-49.6" / 128-1,260mm (5.1"-17.0" / 128-432mm for copy & scanner function)
	Duplex	5 ½"x 8 ½ " LEF/SEF – 11"x17" / B5 LEF/SEF - A3
Original Weight	**Simplex**	40-128g/m2 (10-34lbs) Bond
	Duplex	52-128g/m2 (14-34lbs Bond)
Stack Capacity		100 sheets with 22lbs / 81.4g/m2 paper or Less than 12mm
Power Consumption		Less than 60 W
Dimensions (WxDxH)		22.5"x20.5"x5.4" / 570x520x135mm
Weight		Less than 26.5lbs / Less than 12kg

Paper Feed Unit - PB3040	
Paper Size	A5 LEF – 11"x17"(DLT) / A3
Paper Weight	60-169g/m2 (16-44 lb Bond)
Paper Capacity	1,100sheets(550 sheets x 2 trays with 80g/m2 paper)
Power Consumption	Less than 50W (Power is supplied from mainframe)
Dimensions (WxDxH)	22.8"x24.4"x10.2" / 580 x 620 x 260mm
Weight	Less than 57lbs / Less than 26kg

LCT 2000 - PB3050	
Paper Size	8 ½"x11" LEF (LT)/ A4 LEF
Paper Weight	60-169g/m2 (16-44 lb Bond)
Paper Capacity	2,000sheets(1000 sheets x 2 trays with 80g/m2 paper)
Power Consumption	Less than 50W (Power is supplied from mainframe)
Dimensions (WxDxH)	22.8"x24.4"x10.2" / 580 x 620 x 260mm
Weight	Less than 57lbs / Less than 26kg

LCT 1200 - RT3000	
Paper Size	8 ½"x11" LEF (LT)/ A4 LEF
Paper Weight	60-169g/m2 (16-44 lb Bond)
Paper Capacity	1,200sheets (80g/m2 paper)
Power Consumption	Less than 50W (Power is supplied from mainframe)
Dimensions (WxDxH)	13.7"x21.3"x11.4" / 348 x 540 x 290mm
Weight	Less than 31 lbs, less then 14kg

Subject to change without notice

Booklet Finisher - SR3020		
Paper size	**Proof Tray**	5 ½"x8 ½"LEF/SEF(HLT) – 11"x17" (DLT), B6SEF, A5SEF/LEF – A3 SEF
	Shift Tray	5 ½"x8 ½"LEF/SEF(HLT) – 11"x17"(DLT), B6SEF, A5SEF/LEF – A3 SEF
Paper Weight	**Proof Tray**	52-163g/m2 / 14-43lbs Bond
	Shift Tray	52-256g/m2 / 14-68lbs Bond
Stack Capacity	**Proof Tray**	250 sheets (A4 / 8 ½"x11" or smaller / 80g/m^2 / 20 lbs) 50 sheets (B4 / 8 ½"x14" or larger / 80g/m^2 / 20lbs)
	Shift Tray	2000 sheets (A4 LEF/ 8 ½"x11" (LT) LEF) 1000 sheets (B5, B4SEF, A4 SEF, A3 SEF, LT SEF, LG, DLT SEF,) 500 sheets (A5 LEF) 100 sheets (A5 SEF, B6 SEF, HL SEF)
	Normal Staple Sort	LT LEF, A4 LEF: 40-150 sets (50-13 sheets/set) 150 sets (2-12 sheets/set) LT SEF, B5, A4 SEF: 20-100 sets (50-10 sheets/set) 100 sets (2-9 sheets/set) LG, DLT, B4, A3: 33-100 sets (30-10 sheets/set) 100 sets (9-2 sheets/set)
	Saddle Stitch	30 sets (2 - 5 sheets/set, all size for saddle stitch)
	Staple Sort	15 sets (6 - 10 sheets/set, all size for saddle stitch) 10 sets (11 - 15 sheets/set, all size for saddle stitch)
	Mixed Size	50 sets (2-30 sheets/set) Combination (A3 SEF and A4 LEF), (B4 SEF and B5 LEF), (DL SEF and LT LEF)
Staple Capacity	**Normal Staple**	[Single Size] 50 sheets (A4 / 8 ½"x11" (LT)/ 80g/m2 / 20 lbs) 30 sheets (B4 / 8 ½"x14"(LG) or larger / 80g/m2 / 20lbs) [Mixed Size] 30 sheets(A4 LEF and A3), (B5 LEF and B4), (LT LEF and DLT)
	Saddle Stitch Staple	15 sheets (80g/m2 / 20 lbs)
Staple Paper Size	**Normal Staple**	8 ½"x11" (LT) – 11"x17"(DLT), B5 LEF/SEF – A3 SEF
	Saddle Stitch Staple	8 ½"x11" (LT) SEF, 8 ½"x14" (LG), 11"x17"(DLT) SEF, B5 SEF, A4 SEF, B4 SEF, A3 SEF
Staple Paper Weight	**Normal Staple**	17-24lbs Bond/ 64-90g/m2, 2 cover sheets/set (60lb Cover/163g/m2)
		Available
	Saddle Stitch Staple	17-24lbs Bond/ 64-90g/m2, 1 cover sheet/set(163g/m2) available
Staple Position		1 staple / 3 positions, 2 staples / 2 positions
Staple Needle Capacity		[Normal Staple] 5,000pcs. /cartridge [Saddle Stitch] 2,000pcs./cartridge
Punch Unit NA (Optional)	**2 Hole**	[Paper size] SEF: HLT – DLT/ A5 – A3, LEF: HLT, LT, A4-A5 [Paper Weight] 14 – 43 lbs Bond/ 52-163g/m2
	3 Hole	[Paper size] SEF: DLT, B4, A3, LEF: LT, B5, A4 [Paper Weight] 14 – 43 lbs Bond/ 52-163g/m2
Power Consumption		96W
Dimension (WxDxH)		25.8"x"x24.2" x 37.8" / 657 x 613 x 960mm
Weight		Approx. 138.9lbs / 63kg w/o Punch Unit Approx. 143.3lbs / 65kg with Punch Unit

Subject to change without notice

3000 Sheet Finisher - SR3030		
Paper size	**Proof Tray**	5 ½"x8 ½"LEF/SEF(HLT) – 11"x17" (DLT), B6 SEF, A5SEF/LEF – A3 SEF
	Shift Tray	5 ½"x8 ½"LEF/SEF(HLT) – 11"x17" (DLT), B6 SEF, A5SEF/LEF – A3 SEF
Paper Weight	**Proof Tray**	52-163g/m2 / 14-43lbs Bond
	Shift Tray	52-256g/m2 / 14-68lbs Bond
Stack Capacity	**Proof Tray**	250 sheets (A4 / 8 ½"x11" or smaller / 80g/m2 / 20 lbs) 50 sheets (B4 / 8 ½"x14" or larger / 80g/m2 / 20lbs)
	Shift Tray	3000 sheets (A4 LEF/ 8 ½"x11" (LT) LEF) 1500 sheets (B5, B4SEF, A4 SEF, A3 SEF, LT SEF, LG, DLT SEF, 12"x18") 500 sheets (A5LEF) 100 sheets (A5 SEF, B6 SEF, HL SEF)
	Normal Staple Sort	LT LEF, A4 LEF: 60 – 150 sets (50 – 20 sheets/set) 150 sets (2 – 19 sheets/set) LT SEF, B5, A4 SEF: 30 - 100 sets (50 - 15 sheets/set) 100 sets (2 – 14 sheets/set) LG, DLT, B4, A3: 33 - 100 sets (30 – 15 sheets/set) 100 sets (14 – 2 sheets/set)
	Mixed Size	50 sets (2-30 sheets/set) Combination (A3 SEF and A4 LEF), (B4 SEF and B5 LEF), (DL SEF and LT LEF)
Staple Capacity	**Normal Staple**	[Single Size] 50 sheets (A4 / 8 ½"x11" (LT) / 80g/m2 / 20 lbs) 30 sheets (B4 / 8 ½"x14"(LG) or larger / 80g/m2 / 20lbs) [Mixed Size] 30 sheets(A4 LEF and A3), (B5 LEF and B4), (LT LEF and DLT)
Staple Paper Size:	**Normal Staple**	8 ½"x11" (LT) – 11"x17"(DLT), B5 LEF/SEF – A3 SEF
Staple Paper Weight	**Normal Staple**	17-24lbs Bond/ 64-90g/m2, 2 cover sheets/set(163g/m2) Available
Staple Position		1 staple / 3 positions, 2 staples / 1 positions
Staple Needle Capacity		5,000pcs. /cartridge
Punch Unit (Optional)	**2 Hole**	[Paper size] SEF: HLT – DLT/ A5 – A3, LEF: HLT, LT, A4-A5 [Paper Weight] 14 – 43 lbs Bond/ 52-163g/m2
	3 Hole	[Paper size] SEF: DLT, B4, A3, LEF: LT, B5, A4 [Paper Weight] 14 – 43 lbs Bond/ 52-163g/m2
Power Consumption		96W
Dimension (WxDxH)		25.8"x"x24.2" x 37.8" / 657 x 613 x 960mm
Weight		Approx. 119lbs / 54kg w/o Punch Unit Approx. 123.5lbs / 56kg with Punch Unit

Subject to change without notice

1000 Sheet Finisher - SR790		
Paper Size	**Proof Tray**	5 ½”x8 ½”LEF/SEF(HLT) – 11”x17” (DLT), A5SEF - A3 SEF
	Shift Tray	5 ½”x8 ½”LEF/SEF(HLT) – 11”x17”(DLT), A5 SEF - A3 SEF
Paper Weight	**Proof Tray**	52-260g/m2 / 14-68lbs
	Shift Tray	52-163g/m2 / 14-43lbs
Stack Capacity	**Proof Tray**	250 sheets (A4 / 8 ½”x11” or smaller / 80g/m2 / 20 lbs) 50 sheets (B4 / 8 ½”x14” or larger / 80g/m2 / 20lbs)
	Shift Tray	1000 sheets (A4 / 8 ½”x11”or smaller / 80g/m2 / 20 lbs) 500 sheets (B4 / 8 ½”x14” or larger / 80g/m2 / 20lbs)
	Normal Staple Sort	LT LEF, A4 LEF: 20-100 sets (50 – 10 sheets/set) 100 sets (2 – 9 sheets/set) LT SEF, B5, A4 SEF: 10 - 50 sets (50 - 10 sheets/set) 100 sets (2 – 9 sheets/set) 12”x18”, LG, DLT, B4, A3: 10 - 50 sets (30 – 10 sheets/set) 50 sets (2– 9 sheets/set)
Staple Capacity		50 sheets (A4 / B5 / 8 ½”x11” / 80g/m2 / 20 lbs) 30 sheets (B4 / 8 ½”x14” or larger / 80g/m2 / 20lbs)
Staple Paper Size		8 ½”x11”(LT) – 11”x17”(DLT), B5 LEF/SEF – A3 SEF
Staple Paper Weight		17-28lbs / 64-90g/m2
Staple Position		1 staple / 2 positions 2 staples / 1positions
Staple Needle Capacity		5,000pcs. /cartridge
Shift Tray		Standard
Power Consumption		50W
Dimension (WxDxH)		10.7”x20.5”x31.2” / 270x520x790mm
Weight		55.2lbs / 25Kg

One Bin Tray - BN3040	
Bin Capacity	125 sheet 20lb bond (80g/ m2)
Paper Size	5.5”x8.5” (HLT)11”x17”(DLT) SEF, A5－A3 SEF
Paper Weight	16－28lbs Bond/ 60－196 g/ m2
Power Consumption	5W (Power is supplied from the mainframe)
Dimension (WxDxH)	22.2” x 16.1” x 4.5” / 565 x 410 x 115mm

Subject to change without notice

Product Support Guide
D009 D011 D012 D013

Printer Specifications

CPU			RM7035C-533L
RAM Standard			256MB (Shared with other features) (Max 512 for Mono PS / Printer Model / 768MB for Color PS Model)
Hard Disk Drive			40GP (Shared with other features)
PDL	**Std.**		RPCS
	Option		PCL5e, PCL6, Adobe PostScript3
Print Resolution	**Max.**		600 dpi(2400x600dpi with smoothing)
Fonts	**Std.**		--
	Option		PCL: 46 fonts (Truetype: 10 fonts, Intelli: 35 fonts, Bitmapped: 1 font) + International fonts: 13 Intellifonts *1 PS3: 136 Roman fonts
Connectivity	**Host Interface**	**Std.**	Ethernet (RJ-45 network port: 10Base-T/100Base-TX), USB2.0
		Option	IEEE1284/ECP, Wireless LAN (IEEE802.11a/g, WPA support), Bluetooth, Gigabit Ethernet
	Network Protocol		TCP/IP (IP v4, IP v6), IPX/SPX, Apple Talk (Auto Switching)
	MIB support	**Standard MIB (SMNP Printer MIB)**	MIB-II(RFC1213), HostResource (RFC1514), PrinterMib (RFC1759)
		Private MIB	Ricoh Original
	Network/Operating Systems		Windows Vista/ 2000/ Me/ XP/ Server 2003 Netware 3.12, 3.2, 4.1, 4.11, 5.0, 5.1, 6, 6.5Unix; Sun Solaris, HP-UX, SCO OpenServer, RedHat Linux, IBM AIXMac OS 8.6-9.2x, OS X 10.1 or laterSAP R/3, NDPS GatewayIBM iSeries/ AS/ 400-using OS/400 Host Print Transform

*1) Cyrillic (Russian), Greek, Hebrew and Arabic are included in International Fonts.

Scanner Specifications

Optical Resolution		100 / 200 / 300 / 400 / 600 dpi Default = 200dpi	
Scan Speed (Color Scanner)		<B&W> B&W 2 value (Text,Photo), A4(LEF),200dpi, Compression(MH): 50ipm <Color> FC(Text, Photo), A4(LEF), 200dpi, Compression(default level): 29ipm	
Scan Speed (Mono Scanner)		<B&W> B&W 2 value (Text,Photo), A4(LEF),200dpi, Compression(MH): 50ipm	
Auto scan size detection	**US model**	Contact Glass	11”x17”(DLT) SEF, 8 ½”x14”(LG) SEF, 8 ½”x11”(LT) LEF/SEF,
		ARDF	11”x17” (DLT)SEF, 8 ½”x14” (LG)SEF, 8 ½”x11”(LT) LEF/SEF, 5 ½”x8 ½”(HLT) LEF/SEF, 8 1/2"×13"(Foolscap) SEF, 10”x14”SEF, 11”x15”SEF (detected the same as DLT SEF, Default = DLT SEF), 8”x10”SEF (detected the same as LT SEF, Default = LT SEF), 7 ¼”x10½”(EXE) LEF/SEF
Scan Area		Main Scan: 297mm (11.69'), Sub Scan: 432mm (17")	
RGB Support		Standard	
NETWORK INTERFACE		Ethernet 10/100BaseTX, Gigabit Ethernet, Wireless LAN(802.11a/g)	
Protocol		Network: TCP/IP, Sending E-mail: SMTP, POP3Scan to Folder: SMB, FTP, NCP	
Compression Method		BW: TIFF (MH, MR, MMR), Grayscale, Full color: JPEG(5 levels)	

Subject to change without notice

Scanner Specifications (continued)	
Scan Mode (Mono Scan) Standard	Standard: BW: Text, BW :Text/Line Art, BW Text/Photo, BW Photo, Gray Scale
Scan Mode (Color Scan) Standard	Standard: BW: Text, BW :Text/Line Art, BW Text/Photo, BW Photo, Gray Scale, FC Photo: Text/Photo, FC Photo: Glossy Photo, Auto Color Select
Image Density	Auto Density Selection (Effective only in BW and Grayscale scan mode) Manual: 7 levels (Effective in BW/Grayscale and FC scan mode)
Image Rotation	BW: Yes, Grayscale/FC: Single and Multi valued PDF only
SADF / Batch Mode	Yes
Mixed Size Mode	Yes

Scan to Email			
Requirement		SMTP (Mail Server) Gateway and TCP/IP	
Authorization function		SMTP authentication, POP before SMTP authentication	
Resolution		100dpi, 200dpi (Default), 300dpi, 400dpi, 600dpi	
MAX E-mail address# in HDD		2,000 addresses	
Register Group address in HDD		Max. 100 Group (Max. 500 addresses in one group address)	
Maintain E-mail address in HDD		Direct input on operation panel, Web Image Monitor, Smart Net Monitor	
Input of destination E-mail address via soft key		Possible, Max. 100 destinations per job	
Search E-mail address in HDD		By name and E-mail address	
LDAP Search		Yes	
Max. address numbers per send		Max. 500 addresses per send *1	
Address numbers per send		Address from HDD address book *1	Max. 500
		Address looked up via LDAP *1 *2	Max. 100
Attention		To, cc, bcc	
Subject	**Manual Input**	Max. 128 Characters via soft key	
	Storing Words	Yes (via soft key)	
Body Message	**Manual Input**	Max. 80 Characters via soft key	
	Storing Words	5 body messages. 80 characters x 5 lines per a body message Title name of the body message: Max. 20 characters per a name	
	Present	Message: “This e-mail included attached file sent from xxxx (machine model name).”	
E-mail Size (with restriction)		128 - 102,400KB, Default = 2,048KB	
E-mail Size (w/o restriction)		975MB	
File type		Single Page TIFF/JPEG, Single Page PDF, Multi Page TIFF, Multi Page PDF, Single Page High Compression PDF, Multi Page High Compression PDF	
Program User Setting		Yes (up to 10 programs)	
Divide and send e-mail		Yes (By page or size) / No, Default = Yes(By size) *3	
Resend		Yes / No, Default = Yes	
Encryption (S/MIME)		Yes	

*1: Address from HDD address book + Address input via soft key + Address looked up via LDAP = Max.500.
*2: Address directly input via soft key + Address looked up via LDAP = Max. 100.
*3: If the sent file size exceeded the maximum E-mail size, it would be divided to multiple sending. In addition, the sent files might not be accepted by the receiving side due to the limitation in the receiving capacity at the receiver SMTP server or E-mail software setting

Subject to change without notice

Scan to Folder	
Protocol Support	SMB (Server Message Block), FTP (File Transfer Protocol), NCP
Security	Client folder log-in (log-in name and password) Encryption of log-in name and password during transmission
Resolution	100dpi, 200dpi (Default), 300dpi, 400dpi, 600dpi
Register client folder address in HDD	Max. 2,000 folders
Maintain client folder address in HDD	Direct input on operation panel, WebImageMonitor, SmartNetMonitor
Destination client folder address input via soft key	Yes SMB: Network path -> Client folder -> Password FTB: Server -> Network path -> User account -> Password NCP: Network path -> User account -> Password -> Connection Type: NDS/Bindery
Search client folder	SMB: Browsing directly to the designated folders FTP: By client folder name NCP: Browsing
Max. client folder numbers per send	Max. 50 client folders / PCs per send
Group address	Max. 100 destinations (To Folder: 50, To E-mail: 100) (*1) e.g. 100 destinations 50 folders included >>>OK 100 destinations 51 folders included>>>Failure
Input subject	No
Scan File Size	Up to 2000MB
File type	Single Page TIFF/JPEG, Single Page PDF, Multi Page TIFF, Multi Page PDF, Single Page High Compression PDF, Multi Page High Compression PDF
Program User Setting	Yes (up to 10 programs)
Resend	Yes / No, Default = Yes

(*1) User can send to Max. 100 destinations in the same group. But the number of folders has to be less than 50, since Max. folder destinations are 50. If there are more than 50 folder destinations registered in the Group address, a message pops up.

Max. Address numbers per sending (combination between E-mail and Folder)				
	Input via	**Condition 1: Max. address can select or input**	**Condition 2: Max. address allow in single operation**	**Condition 3: Combination of addresses: Max.**
Scan to E-mail	Address book	500	500	550
	Manual Input	100		
Scan to Folder	Address book	50	50	
	Manual Input	50		

Subject to change without notice

Network TWAIN Driver	
OS	Windows 2000, Server 2003, Windows XP, Windows Vista
Resolution	100-1200dpi (Black and White / Grayscale), 100 - 600dpi (Full Color)
Scan Mode	Standard / Photo / OCR / Filing
Image Adjustment	Brightness / Contrast / Threshold /Gamma Adjustment / Halftone Pattern
Stamp	Date / Page Number / Text
Endorse	Supported

Fax Specifications		
Circuit	PSTN, PBX	
Capability	ITU-T (CCITT) G3, Additional G3 (option),	
Resolution	8 x 3.85 line/mm, 200 x 100dpi (std.) 8 x 7.7 line/mm, 200 x 200dpi (std.) 8 x 15.4 line/mm, 16 x 15.4 line/mm, 400 x 400dpi (with optional SAF memory)	
Compression Method	MH, MR, MMR, JBIG(standard from R-C4)els)	
Scanning speed (DF Used)	0.56sec.(A4/LT SEF, Standard/Detail mode), 0.40sec.(A4/LT LEF, Standard/Detail mode) 1.12sec.(A4/LT SEF, Super Fine mode) 0.80sec.(A4/LT LEF, Super Fine mode) *ITU-T No1 chart, 200 x 100 dpi(Standard mode), 200dpi(Detail mode), 400dpi(Super Fine mode)	
Number of Pages Scanned Per Minutes (DF Used)	A4/LT SEF	Standard mode: 56 cpm Detail mode: 56cpm Super Fine mode: 46 cpm
	A4/LT LEF/image rotation	Standard mode: 58 cpm Detail mode: 48 cpm Super Fine mode: 30 cpm
Transmission speed	G3: Approx.2 seconds (200x100 dpi, JBIG, ITUT #1 chart TTI off, memory transmission) G3: Approx.3 seconds (200x100dpi, MMR, ITUT #1 chart, TTI off, memory transmission)	
Page Memory Size	Standard	8MB
	With Optional SAF Memory	16MB
SAF Memory Size	Standard	4MB (Approx. 320 pages)
	With Optional SAF Memory	28MB (Approx. 2,240 pages)
	Option: 32MB SD-RAM (24MB SAF Memory + 8MB Page Memory)	
Memory backup	One hour	

Subject to change without notice

Fax Specifications (continued)	
Smoothing	Standard
TTI/RTI	Standard
CSI	Standard
Quick dial/Speed dial	Standard: 500 numbers(without HDD)/ 2,000 numbers (with HDD)
Group dial	Standard: 100 groups (500 numbers per 1 group)
Program	Standard: 100 numbers
Redial	Standard
Direct fax number entry	Standard
Dual access	Standard
User code	Std. 500
Page counter	Standard
Auto reduction	Standard
Wild cards	Standard
Summer time (day light saving time)	Standard
ID code programming	Standard (4 digits)
Programming by OMR	No
User function key	Standard (3)
Night timer	No
Energy saver	Standard
LCD prompt	Standard
Remaining memory indication	Standard
clock adjustment	Standard
User parameter setting	Standard
User data transfer	Standard

Transmission Features	Remarks
Immediate transmission	Standard
Memory transmission	Standard
Serial broadcasting	Standard (Max. 500 numbers)
Send later	Standard
Error correction mode	Standard
Page retransmission	Standard
Forwarding	Standard
Image rotation	Standard
Closed network (transmission)	Standard
Double sided transmission	Yes
Transmission reserve	No

Subject to change without notice

Reception Features	Remarks
Automatic reception	Standard
Manual reception	Standard
Substitute reception	Standard
Authorized reception	Standard
Multi-copy	Standard
Closed network	Standard
Reception time printing	Standard
Center mark	Standard
Checkered mark	Standard
Economy printing mode	No
Duplex reception	Yes with option

LAN-Fax M8 Specification	
Paper Size	Letter (default for NA model), Legal, B5, A5
Resolution	Super Fine (400 x 400 dpi) Detail (200 x 200 dpi) *default Standard (200 x 100 dpi)
Gray Scale	Off On normal *default On lighter
Number of Address	500
OS	Windows2000, Windows XP, Windows Vista

Subject to change without notice

Internet Fax (T.37 Full mode) Basic Specification	
Requirement of Mainframe	G3 fax option is required. Printer Scanner option is required.
Number of Address	2,000 HDD storage
Attention	"to" or "bcc" (select only one), max 500 attentions
Destination Combination	Internet Fax + G3 Fax, Internet Fax to PC + G3 Fax
Network	LAN: Local Area Network Ethernet/10base-T, 100base-TX, IEEE802.11b(wireless LAN)
Scan line density	8 x 3.85 lines/mm, 200 x 100 dpi(Standard character), 8 x 7.7 lines/mm, 200 x 200 dpi(Details character), 8 x 15.4 lines/mm(Fine character: optional expansion memory required), 16 x 15.4 lines/mm, 400 x 400 dpi(Super Fine character: optional expansion memory required)
Original size	Maximum A3 or 11" x 17" (DLT)
Maximum scanning size	Standard: A3, 297mm x 432mm (11.69 x 17') Irregular: 297mm x 1200mm (11.69 x 47.24')
Transmission protocol	Recommended: T.38 Annex, TCP, UDP/IP communication, SIP(RFC 3261 compliant), H.323 v2
Compatible machines	IP-Fax compatible machines
IP-Fax transmission function	Specify an IP address and send faxes to an IP-Fax compatible fax through a network .Also capable of sending faxes from a G3 fax connected to a telephone line via a VoIP gateway.
IP-Fax reception function	Receive faxes sent from an IP-Fax compatible fax through a network. Also capable of receiving faxes from a G3 fax connected to a telephone line via a VoIP gateway

IP-Fax Specifications	
Network	LAN: Local Area Network Ethernet/10base-T, 100base-TX, IEEE802.11b(wireless LAN)
Scan line density	8 x 3.85 lines/mm, 200 x 100 dpi(Standard character), 8 x 7.7 lines/mm, 200 x 200 dpi(Details character), 8 x 15.4 lines/mm(Fine character: optional expansion memory required), 16 x 15.4 lines/mm, 400 x 400 dpi(Super Fine character: optional expansion memory required)
Original size	Maximum A3 or 11" x 17" (DLT)
Maximum scanning size	Standard: A3, 297mm x 432mm (11.69 x 17") Irregular: 297mm x 1200mm (11.69 x 47.24")
Transmission protocol	Recommended: T.38 Annex, TCP, UDP/IP communication, SIP(RFC 3261 compliant), H.323 v2
Compatible machines	IP-Fax compatible machines
IP-Fax transmission function	Specify an IP address and send faxes to an IP-Fax compatible fax through a network. Also capable of sending faxes from a G3 fax connected to a telephone line via a VoIP gateway.
IP-Fax reception function	Receive faxes sent from an IP-Fax compatible fax through a network Also capable of receiving faxes from a G3 fax connected to a telephone line via a VoIP gateway

Subject to change without notice

MFP Supported Environments

Windows Environments

	Type	PCL5e	PCL6	PRCS	PostScript3
Windows 2000	Professional	Y	Y	Y	Y*1
	Server	Y	Y	Y	Y*1
	Advanced Server	Y*2	Y*2	Y*2	Y*1
	Datacenter Server	N	N	N	N
Windows XP	Professional	Y	Y	Y*3	Y*1
	Home Edition	Y	Y	Y*3	Y*1
Windows Server 2003	Standard Edition	Y	Y	Y*2	Y*1
	Enterprise Edition	Y*2	Y*2	Y*2	Y*1
	Datacenter Edition	N	N	N	N
	Web Edition	N	N	N	N
Windows Vista	Ultimate	Y	Y	Y	Y*1
	Enterprise	Y	Y	Y	Y*1
	Business	Y	Y	Y	Y*1
	Home Premium	Y	Y	Y	Y*1
	Home Basic	Y	Y	Y	Y*1

*1 Adobe does not release PS driver for Windows2000/XP and Vista. Only MS-PostScript driver is available and PPD file for MS-PS are included in the Driver CD.

*2 Cluster Server configurations are not supported.

*3 RPCS driver does not support “Fast User Switching” functions of Windows XP.

Point and Print

Windows OS		Drivers		
Server	Client (Push to)	PCL5e/6	RPCS	PS
Windows Vista	VISTA	Yes	Yes	Yes
	XP	Yes	Yes	Yes
	W2K Pro	Yes	Yes	Yes
	MT4.0 WS	No	No	No
	98 / ME	No	No	No
Windows Server 2003	VISTA	Yes	Yes	Yes
	XP	Yes	Yes	Yes
	W2K Pro	Yes	Yes	Yes
	MT4.0 WS	Yes	Yes	Yes
	98 / ME	Yes	Yes	Yes
Windows XP Professional	VISTA	Yes	Yes	Yes
	XP	Yes	Yes	Yes
	W2K Pro	Yes	Yes	Yes
	MT4.0 WS	Yes	Yes	Yes
	98 / ME	Yes	Yes	Yes

Subject to change without notice

Point and Print (continued)				
Windows 2000 Professional, Server & Advanced Server	VISTA	Yes	Yes	Yes
	XP	Yes	Yes	Yes
	W2K Pro	Yes	Yes	Yes
	MT4.0 WS	Yes	Yes	Yes
	98 / ME	Yes	Yes	Yes
NT 4.0 Workstation & Server (Intel)	VISTA	No	No	No
	XP	No	No	No
	W2K Pro	Yes	No	No
	MT4.0 WS	Yes	Yes	Yes
	98 / ME	Yes	Yes	Yes

Terminal Services and Citrix MetaFrame

Server	Driver		
	PCL5e/6	RPCS	PS
Windows Server 2003	Yes	Yes	Yes
Windows 2000 Server	Yes	Yes	Yes
Win 2003 Servers + MetaFrame	Yes	Yes	Yes
Win 2000 Servers + MetaFrame	Yes	Yes	Yes
Windows 2003 Servers + Citrix PresentationServer4.0	Yes	No	Yes
Windows 2000 Servers + Citrix PresentationServer4.0	Yes	No	Yes
Win NT4.0 TS E+ Citrix PresentationServer4.0	No	No	No
Win 2000 Servers + Citrix PresentationServer4.5	Yes	No	Yes
Win 2000 Servers + Citrix PresentationServer4.5	No	No	No
Win NT4.0 TSE + Citrix PresentationServer4.5	No	No	No

The following combinations of operating system and Citrix MetaFrame are supported:

Windows 2000 Server /Advanced Server

1. Windows Terminal Service (RDP protocol)
2. MetaFrame 1.8 SP3/FR1+SP3/SP4 (ICA protocol) *1
3. MetaFrame XP 1.0 SP1/SP2/SP3/SP4/FR1/FR2/FR3 (ICA protocol)
4. MetaFrame PresentationServer3.0
5. Citrix PresentationServer4.0 *2

Windows 2003 Server

1. Windows Terminal Service (RDP protocol)
2. MetaFrame XP 1.0 SP4/FR3 (ICA protocol)
3. MetaFrame PresentationServer3.0
4. Citrix PresentationServer4.0 *2
5. Citrix PresentationServer4.5 *2

*1: PCL mono-drivers do not support MetaFrame1.8 + SP3 Environment. Only mini-driver support Meta1.8+SP3 Environment.

*2: Only PCL/PS drivers are tested under this environment.

*3: PCL5/6, RPCS and PS3 drivers are not available on Windows NT4.0 TSE from April 2008 onwards.

Subject to change without notice

Windows NT Server 4.0 Terminal Server Edition.- with SP6 and later required

1. Windows Terminal Service (RDP protocol)
2. MetaFrame 1.8 SP3/FR1+SP3/SP4 (ICA protocol)
3. MetaFrame XP 1.0 SP1/SP2/FR1 (ICA protocol)

Note:

Even with "Yes" put in the cell, there is a case the driver is not supported under the combination of FR and Service Pack of MetaFrame. Please refer to the release announcement of Terminal Service for more information.

Mac OS Environment

	PostScript3	Printer Utility for MAC
Mac OS 8.6 or later, Mac OS X classic	Yes	Yes
Mac OS X Native : v. 10.1 or later *1	Yes	Yes*2

*1: Mac OS X v.10.0.X is not supported.
*2: Mac OS X v.10.2.0 is not supported.

Unix Environment

Unix Platforms	**Version**
Sun Solaris	2.6 / 7 / 8 / 9 /10
HP-UX	10.x / 11.x /11iv2
Red Hat Linux	6.x / 7.x / 8.x / 9.x / Enterprise
SCO OpenServer	5.0.6 /5.0.7/6.0
IBM AIX	V4.3 & 5L Version 5.1/5.2 /5.3

Novell Netware

Netware Sever	**Supported Version**	Netware 3.12 / 3.2 / 4.1 / 4.11 / 5.0 / 5.1 / 6.0/6.5
Client	**Supported OS**	Windows 2000 / XP (Professional)
Supported Print System		Q-base, NDPS Gateway, i-print

SAP R/3 Environment

Supported environments	R/3 version	3.x or later , mySAP ERP2004 or later
	Platform	Independent
	PDL	PCL 5e
	Character Set	Latin 1(Western European), Latin 2 (Eastern European)
	Localization	English only
Supported features	Input/Output Bin, Duplex, Stapling, Punching, Resolution, Collation, EconoMode/TonerSaving, Smoothing, Page Protect, Auto Tray Change/Opt Tray select	
Supported Barcode & OCR Fonts* (* BOP will be Procured locally.)	Barcode Fonts (Support Latin 1 only)	Code 128, Code 39, Code 93, Codabar, 2 of 5 interleaved/Industrial/Matrix, MSI, USPS, UPC/EAN
	OCR Fonts	OCRA, OCRB

Utility Software

Software	Description
Smart Device Monitor for Admin	This software enables you to manage and monitor printers and other devices over the network.
DeskTopBinder – SmartDeviceMonitor for Client	This software enables you to access networked printers to print, monitor or to receive notifications. With DeskTopBinder Lite you can connect client computers to I/O devices enabling you to efficiently manage data.
Device Graphic Update Module	Device Graphic Update Module provides bitmap images used to represent the various statuses of devices graphically within Smart Device Monitor or Web Smart Device Monitor. Available on website.
Printer Utility for Mac	This is a utility for Macintosh that provides access to several network printing administrative features.
Mac OS X PPD Installer	This PPD installer is used to install a PPD (Postscript Printer Description) file on Mac OSX. PPD files contain descriptions of printer capabilities such as paper sizes, number of input trays and duplexing. Once the PPD file is installed on the system using the PPD installer, the PS driver that comes bundled with Mac OS X can use the information in the PPD to control the print device and enable full functionality. It supports the Mac OS X 10.1 or later. Please see the Readme file for information about compatibility with versions of Mac OS X.
LAN FAX Driver M8	This software enables you to fax documents directly from your computer. The Address Book Editor and Cover Sheet Editor are installed as well. This software requires the optional fax unit to be installed on the machine. M8 Driver
RPCS Driver	Printer driver for Windows: It is optimized for the Windows GDI. High performance printing can be expected. Regularly used settings can be saved as a "one-click icon" in the driver interface. These settings can be reused easily by clicking the icon.
PCL 6 Driver	Printer driver for B/W printing in Windows. It supports HP PCL XL commands.
PCL 5e Driver	Printer driver for printing in Windows. It supports HP PCL 5e commands.
Post Script Driver	By interacting with the Adobe PostScript 3 controller in the device, this driver is able to produce an accurate representation of the screen image.
Network TWAIN Driver	TWAIN scanner driver for network connections with new features Combine/Series, compatible with SNMP V3and Network Connection Tool.

Subject to change without notice

Product Support Guide
D009 D011 D012 D013

Print Driver Information

	PCL 5e / 6	RPCS	PostScript3			
			Windows 2000 XP	Windows Vista	Mac OS 8.6-9.2	Mac OSX
Job Binding	N	Y	N	N	N	N
Send to Document Server	Y	Y	Y	Y	Y	Y*1
Sample Print	Y	Y	Y	Y	Y	Y*1
Locked Print	Y	Y	Y	Y	Y	Y*1
Hold Print	Y	Y	Y	Y	Y	Y*1
Stored Print	Y	Y	Y	Y	Y	Y*1
Stored Print (Shared)	Y	Y	N	N	N	Y*1
Reduce/Enlarge (Zoom/Scaling)	Y*2	Y	Y	Y	Y	Y
Reduce/Enlarge Centering	Y*2	Y	N	N	N	N
Collate	Y*3	Y	Y	Y	Y	Y
Layout (N-up)	Y	Y	Y	Y	Y	Y
Poster	N	Y	N	N	Y	N
Duplex	Y	Y	Y	Y	Y	Y
Booklet1	N	Y	N	N	N	N
Booklet2 (Magazine)	Y	Y	Y	Y	N	N
Non-Reduction Booklet	Y	Y	N	N	N	N
Punch	Y	Y	Y	Y	Y	Y
Staple	Y	Y	Y	Y	Y	Y
Front Cover	Y	Y	N	N	Y*4	Y*4
Back Cover	N	N	N	N	N	N
Front and Back Cover	Y	Y	N	N	N	N
Ship Sheet	Y	Y	N	N	N	N
Chaptering	Y	Y	N	N	N	N
User Defined Pages	Y	N	N	N	N	N
Tab Shift Printing	N	N	N	N	N	N
Fit to Print	Y	Y	Y	Y	Y	N
Mirror Image Print	N	N	Y	Y	Y	N
Negative Image Print	N	N	Y	Y	Y	N
Dithering	N	Y	Y	Y	Y	Y
Edge Smoothing	Y	Y	Y	Y	Y	Y
Toner Saving	Y	Y	Y	Y	Y	Y
Watermark	Y	Y	Y*5	Y*5	Y	Y*5
Overlay	N	Y	N	N	N	N
Header/Footer	N	Y	N	N	N	N
Adjust image position	N	Y	N	N	N	N
Binding Margins	N	Y	N	N	N	N
User ID	Y	Y	Y	Y	Y	Y*1
User Code	Y	Y	Y	Y	Y	Y*1

Subject to change without notice

	PCL 5e / 6	RPCS	PostScript3			
			Windows 2000 XP	Windows Vista	Mac OS 8.6-9.2	Mac OSX
Rotate Print	Y	Y	Y	Y	N	N
Reverse Order Print	N	Y	Y	Y	Y	Y
Do not print Black pages	Y*6	Y	N	N	N	N
Edge to Edge Print	Y	Y	Y	Y	Y	Y
Authentication	Y	Y	N	N	N	N
Encryption/Encoding	Y	Y	N	N	N	N
Unauthorized Copy Control	N	Y	N	N	N	N
Bi-directional communication w/o ScanRouter Professional	Y	Y	N	N	N	N

Y: supported
N: not supported
*1: Available with MAC OS X 10.2. and later
*2: “Centering” feature cannot be selected from PCL driver. However PCL has this feature as the original function.
When printing with Reduce/Enlarge (Zoom) feature of PCL driver, the output will be automatically centered by the PCL ‘s original centering function.
*3: [Collate] setting is not shown in UI. This setting implied capability of collate on Printer.
*4 Same as “First page/Other pages” feature
*5 Custom “Watermark Name” is not available.
*6 This feature cannot be selected from printer driver. But enables to set to “On” in “PCL setting ” on MFP

Important Notice
Windows NT 4.0/9X (Windows 95/98/ME) drivers are available only from web site and these are available only until March 2008.
Please note that Windows 9X drivers are not available from April 2008 onwards

Other MFP Support Information

User Manuals			
Medium	Paper Manual	On the CD	
		HTML	PDF
About This Machine	Yes	Yes	Yes
Troubleshooting	Yes	Yes	Yes
Copy/Document Server Reference	No	Yes	Yes
Facsimile Reference	No	Yes	Yes
Printer Reference	No	Yes	Yes
Scanner Reference	No	Yes	Yes
Network Guide	No	Yes	Yes
General Setting Guide	No	Yes	Yes
Information	No	Yes	No
PostScript 3 Supplement	No	Yes	Yes
IPDS Supplement	No	Yes	Yes
UNIX Supplement	No	No	No
Security Reference	No	Yes	Yes

Subject to change without notice

Counters

- User Tools / Counter → Counter → Print Counter List
- User Tools / Counter → System Settings → Administrator Tools → Display / Print Counter → Print Counter List
- Maximum 7 digits
- Location: to rear of right cover – Lower Rear Corner.

Paper

Recommended Throughput Material
Not Applicable

Non Recommended Throughput Material
Refer to pages in the Operators Instructions Hardware Guide.

Do not use any of the following kinds of paper or a fault might occur:

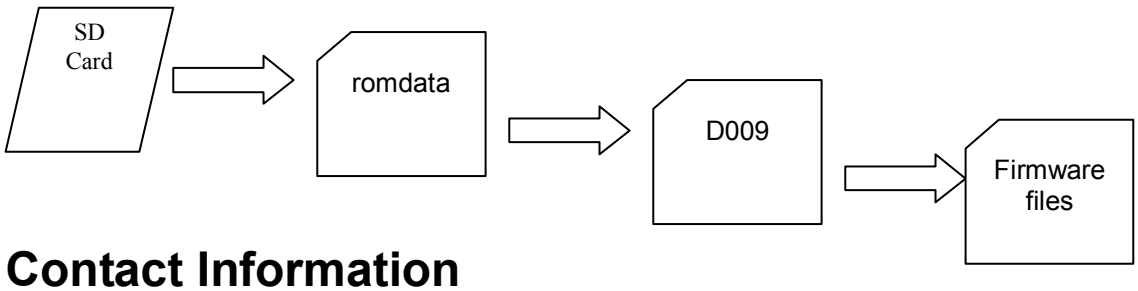
- Aluminum Foil, Carbon paper,
- Conductive paper
- Paper meant for an inkjet printer
- Bent, folded, or creased paper
- Torn paper
- Thermal fax paper
- Art paper
- Paper with perforated lines
- Hemmed-edge paper
- Tab stock
- Slippery paper
- Perforated paper
- Rough paper
- Thin paper with little stiffness
- Paper with a dusty surface

Special Paper
Not Applicable

Firmware Information
Firmware

Firmware SD Card	Firmware Type
BICU	BICU
Engine	Engine
Fax	Fax Application
FAX (Option)	RFAX
GWFCU	MBU
Network Doc Box	Netfile
Network Support	NIB
Ope Panel	LCDC
Opt SD Scanner	Scanner
PS3	PS3
SD Printer	Printer
Security Module	DESS
System/Copy	Controller

SD Card Arrangement



Contact Information

Name	Contact
Technical Services Call Center (Hotline)	Ricoh: (800) 537-4264 Savin/Gestetner: (800) 291-6044 Lanier: (800) 333-3147
Application Help Desk (Software Issues)	Ricoh Phone Card: 2 Call - 000781MIU, 5 Call - 000900MIU Savin Phone Card: 2 Call - 12992, 5 Call - 12993 Gestetner Phone Card: 2 Call - 12994, 5 Call - 12995
National Reclamation Center	(800) 557-4264 http://www.nrc-usa.com
Technology Solutions Center Web Site	http://www.tscweb.net
Configurator	http://www.connectivity-cafe.com
Ricoh Web Site	http://www.ricoh-usa.com/
Savin iLINC Web Site	http://www.savin.com
Headquarter Web Sites	Ricoh Corporation: http://www.ricoh-usa.com Savin Corporation: http://www.savin.com Gestetner Corporation: http://www.gestetnerusa.com/ Lanier Corporation: http://www.lanier.com
Material Safety Data Sheets	(800) 336-MSDS (6737)
Training Center	(973) 882-2200 http://www.ricohuniversity.com

Subject to change without notice

Training Information

Documentation

Description	EDP Code	RFG E-Source Number
B264 Course (5 days) followed by the D009 Self Pace Update Course (provided during the ILT course)	N/A	N/A
Service Manual	003315MIU	rfg030296
Parts Catalog	003316MIU	rfg030298
Point to Points	003317MIU	rfg030297
D009/D011/D012/D013 Service Documentation Update Package	003313MIU	TBD
Operations Manual Part 1	TBD	rfg030299
Operations Manual Part 2	TBD	rfg030300

Please refer to the http://www.ricohuniversity.com/ web site for the most up to date training information.

Please be aware that once a model or series is out of production, the Field Service Manual, Technical Service Bulletins and Ricoh University should be referenced for the most current information. Check the TSC website and e-source.

B264 and B222 Certified Service Personnel

Due to the many servicing similarities between the new D009 series MFPs and the B264 as well as the B222, and the operational similarities with the B222 color MFP, service professionals currently certified on the B264 and B222 have been automatically certified on both the D009 series MFPs.

A New Features Overview document is included on the Parts Catalog CD. It is strongly recommended that all the information provided in this D009/D011/D012/D013 Service Documentation Update Package be thoroughly reviewed by all automatically certified Service Professionals prior to performing any service. It is also strongly recommended that Service Professionals review this material while they have access to a D009 series MFP.

This update package is intended only for Service Professionals who currently hold certification on both the B264 and B222 product lines. Service Professionals who are *not* currently certified on both the B264 and B222 can achieve certification on the B264 instructor-led training program and completing the D009/D011/D012/D013 Self-Pace Update training program.

If you have questions about this or any other training program, please visit the Ricoh University home page at www.ricohuniversity.com or contact Ricoh University at (973) 882-2200.

Subject to change without notice

Revisions

1.0 (2008-01-06) Original Version

1.1 (2008-01-07) page 11 PM kits now include drum
1.2 (2008-01-11) page 34 Total Counter information modified
1.3 (2008-02-01) page 34 Total Counter information modified
1.4 (2008-02-14) page 6 Corrected Bridge Unit as being unique
1.5 (2008-02-29) page 4 Reflected Lanier ordering number change for Java VM Card

Subject to change without notice